

MD01

Radar doppler



Speed and length measurement

The MD01 microwave sensor is a last generation radar doppler with digital signal processing. It is a very versatile sensor that can be installed both above the lane and at the side of the road to detect speed, count vehicles and classify them.

The "patch" may have different opening angles, depending on the application, in order to cover the entire width of the lane.

For an optimal performance and a good accuracy of the data it is recommended to install one MD01 per lane, but the sensor is able to detect vehicles even on two lanes (only for side installation) and to determine the direction of travel.

The antenna signals are analyzed by the internal microcontroller which, through digital signal processing techniques, provides the following transit data:

- Counting
- Length
- Classification in length
- Speed
- Gap
- Headway

Microwave technology, using the Doppler effect, is very accurate in detecting speed.

MD01 has two serial lines: one RS232 for connections up to 10-15 meters and one RS485 for long distance connections. It also has a "digital output" for a possible synchronization with cameras.



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| | |
|---------------------|-------------------------|
| Technology | Radar doppler microwave |
| Frequency | 24,15Ghz - K Band |
| Transmission power | 16 dB |
| Opening angle | 12°x25° 9°x18° |
| Data line | RS232 & RS485 |
| External dimensions | 120x122 mm. |
| Weight | 600/900 g. |
| Power consumption | 120 mA max. |
| Power supply | 12 Vdc |
| Temperature range | -20°C ÷ +50°C |



| | |
|---------------------|---|
| Counting | ✓ |
| Speed | ✓ |
| Vehicle class | ✓ |
| Length | ✓ |
| Gap | ✓ |
| Trigger for cameras | ✓ |

APPLICATIONS

- Speed monitoring
- Traffic monitoring (ITS)
- Vehicle classification
- Trigger for cameras

ACCESSORIES

- Mounting Brackets
- CO1010 Control Unit

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